



CGCTCAGGATAGGACTTCGGCGCTAGAGGATCGGATCCCGGCGCGATTATATAGCTCGATCGATC
 TTCTCTTATCGCGATATGGGATATACACACACACCGCGCGGATAGCATGACTGATCTA
 CCCCACCTTCT
 CACAGACTTACGCTTCT

PubMed

Nucleotide

Protein

Genome

Structure

Popset

Search for

Limits

Index

History

Clipboard

View as

☐ Hide Brief and

LinkBar

1 : GI = "4204096" [GenBank]

Homo sapiens alpha-methylac...

Protein, Nucleotide

LOCUS AF047020 2041 bp mRNA PRI 29-JAN-1999
 DEFINITION Homo sapiens alpha-methylacyl-CoA racemase mRNA, complete cds.
 ACCESSION AF047020
 VERSION AF047020.1 GI:4204096
 KEYWORDS .
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 2041)
 AUTHORS Albers,C., Schmitz,W. and Conzelmann,E.
 TITLE Human alpha-methylacyl-CoA racemase cDNA sequence
 JOURNAL Unpublished
 REFERENCE 2 (bases 1 to 2041)
 AUTHORS Albers,C., Schmitz,W. and Conzelmann,E.
 TITLE Direct Submission
 JOURNAL Submitted (06-FEB-1998) Biozentrum, University of Wuerzburg, Am
 Hubland, Wuerzburg D-97074, Germany
 REFERENCE 3 (bases 1 to 2041)
 AUTHORS Albers,C., Schmitz,W. and Conzelmann,E.
 TITLE Direct Submission
 JOURNAL Submitted (29-JAN-1999) Biozentrum, University of Wuerzburg, Am
 Hubland, Wuerzburg D-97074, Germany
 REMARK Sequence update by submitter
 COMMENT On Jan 29, 1999 this sequence version replaced gi:2896147.
 FEATURES
 source Location/Qualifiers
 1..2041
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 CDS 89..1237
 /EC_number="5.1.99.4"
 /function="racemization of 2-methyl-branched fatty acid
 CoA esters"
 /note="required for bile acid synthesis and for catabolism
 of branched-chain fatty acids"
 /codon_start=1
 /product="alpha-methylacyl-CoA racemase"
 /protein_id="AAD10205.1"
 /db_xref="GI:4204097"
 /translation="MALQGISVMELSGLPFCAMVLADFGARVVRVDRPGSRYDVS
 RLGRGKRSLVLDLKQPRGAIVLRRLLCKRSDVLEPFRRGVMEKLQQLGPEILQRENPR
 IYARLSGFGSGSFCRLAGHDINYLALSGVLSKIGRSGENPYAPLNLLADFGGGLMC
 ALGIIMALFDRTRTDKGQVIDADMVEGTAYLSSFLWKTQKSSLWEAPRGQNMLDGGAP
 FYTTYRTADGEFMAVGAIEPQFYELLIKGLGLKSDELPQMSSTDWPEMKKKFADVFA
 KTKAEWCQIFDGTDACVTPVLTFFEEVVHHDHNKERGSFITSEEQDVSPRPAPLLNT
 PAIPSFKRDPFFIGEHTTEILEEFGFSREEIYQLNSDKIIESNKVKASL"

BASE COUNT 525 a 441 c 527 g 548 t

08/04/2000

ORIGIN

```
1  ggcgccggga  ttgggagggc  ttcttgcaag  ctgctgggct  ggggctaagg  gctgctcagt
61  ttctttcagc  ggggcactgg  gaagcgccat  ggactgcag  ggcatctcgg  tcatggagct
121  gtccggcctg  gccccgggcc  cgttctgtgc  tatggctcctg  gctgacttcg  gggcgcggtg
181  ggtacgcgtg  gaccggcccc  gctcccgtga  cgacgtgagc  cgcttgggcc  ggggcaagcg
241  ctgcgtagt  ctggacctga  agcagccgcg  gggagccgcc  gtgctgcggc  gtctgtgcaa
301  gcggtcggat  gtgctgctgg  agcccttccg  ccgcggtgtc  atggagaaac  tccagctggg
361  cccagagatt  ctgcagcggg  aaaatccaag  gcttatttat  gccaggctga  gtggatttgg
421  ccagtcagga  agcttctgcc  ggtagctgg  ccacgatatc  aactatttgg  ctttgtcagg
481  tgttctctca  aaaattggca  gaagtgggtg  gaatccgtat  gccccgctga  atctcctggc
541  tgactttgct  ggtggtggcc  ttatgtgtgc  actgggcatt  ataatggctc  tttttgaccg
601  cacacgcact  gacaagggtc  aggtcattga  tgcagatatg  gtggaaggaa  cagcatatct
661  aagttctttt  ctgtggaaaa  ctcaaaaatc  gagtctgtgg  gaagcacctc  gaggacagaa
721  catgttggtg  ggtggagcac  ctttctatac  gacttacagg  acagcagatg  gggaaattcat
781  ggctgttgga  gcaatagaac  cccagttcta  cgagctgctg  atcaaaggac  ttggactaaa
841  gtctgatgaa  ctccctctc  agatgagcac  ggtgatttgg  ccagaaatga  agaagaagt
901  tgcagatgta  tttgcaaaga  agacgaaggc  agagtgggtg  caaatctttg  acggcacaga
961  tgcctgtgtg  actccggttc  tgacttttga  ggaggttgtt  catcatgac  acaacaagga
1021  acggggctcg  tttatcacca  gtgaggagca  ggacgtgagc  ccccgccctg  cacctctgct
1081  gttaaacacc  ccagccatcc  cttctttcaa  aagggatcct  ttcattaggag  aacacactga
1141  ggagatactt  gaagaatttg  gattcagccg  cgaagagatt  tatcagctta  actcagataa
1201  aatcattgaa  agtaataagg  taaaagctag  tctctaactt  ccaggcccac  ggctcaagtg
1261  aatttgaata  ctgcatttac  agtgtagagt  aacacataac  attgtatgca  tggaaacatg
1321  gaggaacagt  attacagtgt  cctaccactc  taatcaagaa  aagaattaca  gactctgatt
1381  ctacagtgat  gattgaattc  taaaaatggt  tatcattagg  gcttttgatt  tataaaactt
1441  tgggtactta  tactaaatta  tggtagttaa  tctgccttcc  agtttgcttg  atatatattg
1501  tgatattaag  attcttgact  tatattttga  atgggttcta  gtgaaaaagg  aatgatatat
1561  tcttgaagac  atcgatatac  atttatttac  actcttgatt  ctacaatgta  gaaaatgagg
1621  aaatgccaca  aattgtatgg  tgataaaagt  cacgtgaaac  agagtgattg  gttgcatcca
1681  ggccttttgt  cttggtgttc  atgatctccc  tctaagcaca  ttccaaactt  tagcaacagt
1741  tatcacactt  tgtaatttgc  aaagaaaagt  ttcacctgta  ttgaatcaga  atgccttcaa
1801  ctgaaaaaaa  catatccaaa  ataatgagga  aatgtgttgg  ctactacgt  agagtccaga
1861  gggacagtca  gttttagggt  tgccgtgatac  cagtaactcg  gggcctgttt  ccccggtggg
1921  ctctgggctg  tcagctttcc  tttctccatg  tgtttgattt  ctctcaggc  tggtagcaag
1981  ttctggatct  tatacccaac  acacagcaac  atccagaaat  aaagatctca  ggacccccca
2041  a
```

//

[Restrictions on Use](#) | [Write to the HelpDesk](#)
[NCBI](#) | [NLM](#) | [NIH](#)